

Title (en)
COFFEE MELANOIDIN NANOPARTICLES AND NANOFIBERS

Title (de)
KAFFEEMELANOIDIN-NANOPARTIKEL UND NANOFASERN

Title (fr)
NANOPARTICULES ET NANOFIBRES DE MÉLANOÏDINE DE CAFÉ

Publication
EP 4108094 A1 20221228 (EN)

Application
EP 21181254 A 20210623

Priority
EP 21181254 A 20210623

Abstract (en)
The invention relates to a process for preparing a melanoidin product, the process comprising:a) an extraction step in which coffee grounds are treated with an extraction agent with a pH value greater than 7 to extract a melanoidin-containing solute in a fluid phase of the extraction agent;b) a first separation step in which the fluid phase is separated from the coffee grounds;c) a precipitation step in which the fluid phase is contacted (i) with an acid to obtain an acidic mixture with a pH value lower than 4 or (ii) with an organic phase separation agent and with an acid to obtain a mixture with a pH value in the range of from 4 to 8, thereby forming precipitates containing melanoidin; andd) a second separation step in which the formed precipitates are separated from the acidic mixture.The invention further relates to melanoidin nanoparticles and melanoidin nanofibers obtained from coffee grounds.

IPC 8 full level
A23F 5/24 (2006.01); **A23F 5/26** (2006.01); **A23L 33/105** (2016.01); **A61K 8/9789** (2017.01); **A61K 36/74** (2006.01)

CPC (source: EP US)
A23F 5/24 (2013.01 - EP); **A23F 5/26** (2013.01 - EP); **A23F 5/267** (2013.01 - US); **A23L 33/105** (2016.08 - EP); **A61K 8/0241** (2013.01 - EP); **A61K 8/027** (2013.01 - EP US); **A61K 8/9789** (2017.08 - EP US); **A61K 36/74** (2013.01 - EP); **A61Q 1/02** (2013.01 - US); **A61Q 5/10** (2013.01 - US); **A61Q 19/00** (2013.01 - EP); **B82Y 40/00** (2013.01 - US); **A23V 2002/00** (2013.01 - EP); **A61K 2236/00** (2013.01 - EP); **A61K 2800/10** (2013.01 - EP); **A61K 2800/413** (2013.01 - EP US); **A61K 2800/42** (2013.01 - US)

C-Set (source: EP)
A23V 2002/00 + **A23V 2250/2108**

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4108094 A1 20221228; AU 2022296777 A1 20240125; CA 3223057 A1 20221229; EP 4358728 A1 20240501; US 2024172770 A1 20240530;
WO 2022268898 A1 20221229

DOCDB simple family (application)

EP 21181254 A 20210623; AU 2022296777 A 20220622; CA 3223057 A 20220622; EP 2022067051 W 20220622; EP 22735883 A 20220622;
US 202218572569 A 20220622